

# Recombinant Mouse Phosphoglycerate Mutase 1, His-tagged

**Cat. No.** Pgam1-1955M    **Lot. No.** (See product label)

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant mouse Pgam1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>                  | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>              | Pgam1 belongs to the phosphoglycerate mutase family. This protein is an important component of glucose and 2,3-BPGA (2,3-bisphosphoglycerate) metabolism and catalyzes the reversible reaction of 3-phosphoglycerate (3-PGA) to 2-phosphoglycerate (2-PGA) in the glycolytic pathway. The PGAM is a dimeric enzyme containing, in different tissues, different proportions of a slow-migrating muscle (MM) isozyme, a fast-migrating brain (BB) isozyme, and a hybrid form (MB). |
| <b>Form</b>                     | Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Weight</b>         | 31.4 kDa (278aa) confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>                   | > 95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Concentration</b>            | 1 mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Sequences of amino acids</b> | MGSSHHHHHSSGLVPRGSH MGSMAAYKL VLIRHGSAW NLENRFSGWY<br>DADLSPAGHE EAKRGGQALRDAGYEFDICF TSVQKRAIRT LWTVLDAIDQ<br>MWLPVVRTWR LNERHYGGLT GLNKAETAAK HGEAQVKIWRRSYDVPPPPM                                                                                                                                                                                                                                                                                                             |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

EPDHPFYNSI SKDRRYADLT EDQLPSCESL KDTIARALPF WNEEIVPQIK  
EGKRVLIAAHGNSLRGIVKH LEGLSEEAIM ELNLPTGIPI VYELDKNLKP  
IKPMQFLGDE ETVRKAMEAV AAQGKVKK

**Storage**

Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**OfficialSymbol**

Pgam1

**nullValue\_other**

Pathway

Gluconeogenesis; Glucose metabolism; Glycolysis;Glycolysis / Gluconeogenesis;  
Glycolysis and Gluconeogenesis; Glycolysis,core module involving three-carbon c  
ompounds; Metabolic pathways; gluconeogenesis;glycolysis I; glycolysis II; glyco  
lysis III

## GENE INFORMATION

**Gene Name**

[Pgam1phosphoglycerate mutase 1 \[ Mus musculus \]](#)

**Synonyms**

Pgam1; phosphoglyceratemutase 1; Pgam-1;2310050F24Rik; PGAM-B; EC 3.1.3.13;  
EC 5.4.2.1; EC 5.4.2.4; BPG-dependent PGAM1; Phosphoglycerate mutase  
isozymeB

**Gene ID**

[18648](#)

**mRNA Refseq**

[NM\\_023418](#)

**Protein Refseq**

[NP\\_075907](#)

**UniProt ID**

[Q9DBJ1](#)

**Chromosome**

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## Location

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